BRUHAT BANGALORE MAHANAGAR PALIKE

Project Division, Yelahanka Zone

MODIFIED SCHEDULE - B

Installation of RO Plant and Drilling Borewells and Accessories in Ward No.05

SNo	Quantity	Item Name	Unit	Approved Rates of Sri. K R Santhosh Kumar	
				In figures	In words
1	146.39	Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications and directions of the Engineer in charge Qty Upto 125%	Cum	339.07	Rupees Three Hundred Thirty Nine and Seven Paise Only
2	42.03	Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications and directions of the Engineer in charge Qty Upto 125%	Cum	5890.00	Rupees Five Thousand Eight Hundred Ninety Only
3	88.89	Providing and constructing granite / trap / basalt size stone masonry in foundation cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications and directions of the Engineer in charge Qty Upto 125%	Cum	5211.86	Rupees Five Thousand Two Hundred Eleven and Eighty Six Paise Only
	13.78	Qty Above 125%	Cum	5209.38	Rupees Five Thousand Two Hundred Nine and Thirty Eight Paise Only
4	30.59	Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications and directions of the Engineer in charge	Cum	6217.72	Rupees Six Thousand Two Hundred Seventeen and Seventy Two Paise Only
5	19.93	Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m. and lift upto 1.5 m. including cost of all labour complete as per specifications and directions of the Engineer in charge	Cum	137.21	Rupees One Hundred Thirty Seven and Twenty One Paise Only

Contractor

Executive Engineer
Project Division
Yelahanka Zone

SNo	Quantity	Item Name	Unit	Approved Rates of Sri. K R Santhosh Kumar	
				In figures	In words
6	15.84	Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates :@0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation,plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications and directions of the Engineer in charge	Cum	6148.55	Rupees Six Thousand One Hundred Forty Eight and Fifty Five Paise Only
7	98.76	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressumers and lintels not exceeding 1m in depth including cost of all materials, labour complete as per specifications and directions of the Engineer in charge Qty Upto 125%	Sqm	331.13	Rupees Three Hundred Thirty One and Thirteen Paise Only
	87.18	Qty Above 125%	Sqm	330.97	Rupees Three Hundred Thirty and Ninety Seven Paise Only
8	23.15	Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregtes @ 0.460cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundationfor footing ,pedestals ,retaining walls ,retern walls , walls (any thickness) including attached plasters, columns, pillars, posts, struts, buttresses, bed blocks, anchor blocks, and plinth etc., including cost of all materials, labour, HOM of machinery, curing, complete as per specifications and directions of the Engineer in charge Qty Upto 125%	Cum	6417.31	Rupees Six Thousand Four Hundred Seventeen and Thirty One Paise Only
	7.66	Qty Above 125%	Cum	7166.44	Rupees Seven Thousand One Hundred Sixty Six and Forty Three Paise Only
9	1.71	Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications and directions of the Engineer in charge Qty upto 125%	Tonne	80475.44	Rupees Eighty Thousand Four Hundred Seventy Five and Forty Four Paise Only
	2.09	Qty Above 125%	Tonne	99083.67	Rupees Ninety Nine Thousand Eighty Three and Sixty Seven Paise Only

Contractor

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Project Division

SNo	Quantity	Item Name	Unit	Approved Rates of Sri. K R Santhosh Kumar	
				In figures	In words
10	247.91	Providing and constructing load bearing wall with solid concrete blocks of size 400x200x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 5.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications and directions of the Engineer in charge	sqm	1034.21	Rupees One Thousand Thirty Four and Twenty One Paise Only
11	678.51	Providing 20mm thick cement plaster in single coat with cement mortar 1:3, to stone masonry & concrete surface including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and directions of the Engineer in charge Qty upto 125%	sqm	288.04	Rupees Two Hundred Eighty Eight and Four Paise Only
12	1101.06	Fabricating, supplying and erecting M.S. TubularTruss of span upto 10m. The bottom and top member is provided with 50x50x6mm double equal angles, welded back to back and in between top and bottom line, in areas of mid section is provided with 50x50x6mm equal single angle for vertical and inclined members and at supporting ends 40x40x5mm single angle is provided. All the members are welded together with 6mm gusset plate as per Drawing. The entire truss is anchored in RCC column by using 4 Nos. of M.S. anchor bolts at each support, with 10mm thick base plate and shoe plate.The work includes cutting, straightening, placing in position of M.S angle and wleding wherever necessary, and applying one coat of red oxide primer coat to all themembers including cost of all materials, labour charges, and hire charges of machineries for cutting, welding, grinding and erection equipments, with all lead and lift, transportation, etc., complete as per specifications and directions of the Engineer in charge	kg	124.74	Rupees One Hundred Twenty Four and Seventy Four Paise Only
13	163.54	PROVIDING TRAPEZOIDAL PROFILED SHEET Providing and installing of pre painted Galvolume iron Trapezoidal profiled sheet of approved make 1060 mm width (1000 mm cover width), 28-30 mm crest height with crest distance of 200 mm c/c with 2 ribs at the centre for stiffening. The total coated thickness (TCT) of the sheet will be 0.47 mm +/- 0.02 mm tolerance Zinc-Alu Alloy coating AZ150 gsm as per ASTM 1397/A755-550 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 20-22 microns using self drilling/self tapping screws of 25 mm length, to be fixed over the existing purlins, rafters, channels and trusses.complete as per specifications and directions of the Engineer in charge	sqm	780.19	Rupees Seven Hundred Eighty and Nineteen Paise Only

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Yelahanka Zone

SNo	Quantity	Item Name	Unit	Approved Rates of Sri. K R Santhosh Kumar	
				In figures	In words
14	42.84	Providing, fabricating, assembling and fixing in position aluminium doors using following aluminium mat finish or glossy finish, outer frame plain section 101.6x44.45mm thickness 3.18mm, section weight 2.404 kg/m, door shutters vertical section 44.62x44.45mm thickness 3.18mm, section weight 1.505kg/m, top section 47.62x44.45mm thickness 3.00mm, section weight 1.426kg/m bottom section 114.3x44.45 thickness 3.18mm, section weight 2.646kg/m, door central section 49.91x44.45mm thickness 3.00mm, section weight 1.495 kg/m glazing clips 19x17.3x11mm thickness 0.9mm section weight 0.124kg/m; aluminium sections cut to length joint metred cornersgrinded, the shutters pivoted opening arrangement with heavy duty aluminium alloy automatic door closures floor mounted, providing and fixing standard approved accessories, such as aluminium handle for full width or length, tower bolts, lock, pivots: P.V.C. or rubber gasket with 5.5m. thick plain glass for top and bottom panel; aluminium sections treated for removal of any rust and prevention of further rust formation, and coated with greasy materials for non-adherance of mortars or any other sticky materials; the assembled frame fitted with the corner angles, strips and fitted with screws, rawl plugs or teakwood gutties to R.C.C. columns or masonry on sides. beams and flooring in bottom. including cutting, chistling and making good with cement mortar to match the surface; all the frames throughly cleaned free from rust, scale, or dirt including cost of materials, fixtures, labour and HOM of machinery complete as per specifications. section anodized to 12-15 microns complete as per specifications and directions of the Engineer in charge	sqm	6852.55	Rupees Six Thousand Eight Hundred Fifty Two and Fifty Five Paise Only
15	10.08	Providing and fixing in position aluminium windows and ventilators as per approved drawings with sliding shutters using three track window frame of size 92x31.75mm bottom section 1.3mm thick, weight 1.07kg/m; sides and top sections 1.3 mm, thick, weight 0.933 kg/m.shutter frame section comprising top and bottom section of size 40mmx18mm, wall thickness 1.25mm. weight 0.417 kg./m. shutter side outer 40mmx18mm. wall thickness 1.25mm. weight 0.417 kg/m, shutter interlock section 40mmx26.7mm wall thickness 1.1 mm. thick, weight 0.469 kg/m, the shutters mounted on nylon rollers with approved quality of fixtures such as aluminium handles tower bolts etc.; providing and fixing 5.5mm. thick plain glass for shutters fitted with rubber beading all aluminium sections including cutting to required length, joints mitred subdividing the frame tenonned and rivetted, in the assembled frame, stiffened with end clips for corners, angles etc., and fixed to the walls, lintels, floor beams/cills as the case may be, with necessary steel screws, raul plugs or teak wood gatties including cutting masonry or concrete and making good the original surface using cement mortar. using aluminium section powdered coated to a minimum of 60-70 microns with exterior durable pure polyester grade powder of approved quality.complete as per specifications and directions of the Engineer in charge	sqm	5029.29	Rupees Five Thousand Twenty Nine and Twenty Nine Paise Only
16	118.12	Providing flooring with 60 cms.x 60 cms. size Vitrified glazed tiles of approved quality & make, fixed on top of existing flooring fixed with suitable adhesive, including cutting the tiles to the required size and fixing etc., complete. complete as per specifications and directions of the Engineer in charge	sqm	1173.69	Rupees One Thousand One Hundred Seventy Three and Sixty Nine Paise Only

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SNo	Quantity	Item Name	Unit	Approved Rates of Sri. K R Santhosh Kumar	
				In figures	In words
17	45.24	Providing and fixing pull and push type rolling shutters of approved make out of 18 guage, 75mm wide cold rolled steel laths of convex corrugation, with side guides and bottom rail, with interlocking arrangements for steel laths by means of alternate clips, suspension shaft with High tension coil type springs two numbers, mounted on specially designed pipe shaft, with bracket plates, guide channels, ball bearing arrangements, for inside & outside locking with push & pull operations complete including pulling hooks, 4Nos. handles with all fittings and accessories, painted with a coat of red lead paint (without top cover) cost of materials, labour, HOM of machinery complete as per specifications. Shutter size 3mx2.8 m complete as per specifications and directions of the Engineer in charge	sqm	2901.59	Rupees Two Thousand Nine Hundred One and Fifty Nine Paise Only
18	211.68	Providing and fixing M.S.grill work for windows and ventilators weighing 21kg/sqm using M.S. flats, or M.S. square rods, or combination of M.S. flats and square rods as per approved design, drawing including cutting steel sections and welding the same to required pattern with a coat of red lead primer, cost of materials, fixtures, labour and HOM of machinery complete as per specifications and directions of the Engineer in charge	kg	105.74	Rupees One Hundred Five and Seventy Four Paise Only
19	20.01	Providing and laying flooring using prepolished, water cut/ gang saw 19mm thick granite laid over bed of 20mm thick CM 1:4 and jointed with neat cement slurry mixed with pigments to match shade of granite slabs including laying of POP on finished surface and claning the surface including cost of all meterials and labour etc, complete as per specifications.using solver grey granite/multy red/ruby red/black/Hassan green granite of width not less than 1200mm, mm.complete as per specifications and directions of the Engineer in charge	sqm	2580.98	Rupees Two Thousand Five Hundred Eighty and Ninety Eight Paise Only
20	329.51	Providing and finishing external walls in two coats with waterproof cement paint of approved brand and shade to give an even shade after throughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications, with primer complete as per specifications and directions of the Engineer in charge	sqm	115.67	Rupees One Hundred Fifteen and Sixty Seven Paise Only
21	293.67	Providing and applying painting in two coats with plastic emulsion paint of approved brand on wall surface to give an even approved shade after thoroughly brushing the surface, free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications and directions of the Engineer in charge	sqm	102.06	Rupees One Hundred Two and Six Paise Only

Contractor

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SNo	Quantity	Item Name	Unit	Approved Rates of Sri. K R Santhosh Kumar	
				In figures	In words
22	218.86	Providing and applying enamel metal paint two coats (excluding priming coat) over new steel or other metal surface brushing to give an even shade after cleaning oil, grease, dirt and other foreign matter, including cost of materials, labour, complete as per specificationscomplete as per specifications and directions of the Engineer in charge	sqm	107.73	Rupees One Hundred Seven and Seventy Three Paise Only
23	114.41	Conveying the excavated earth by private vehicle up to 15KMS including lead and lift loading unloading etc., complete as per specifications and directions of the Engineer in charge Qty Upto 125%	Cum	108.18	Rupees One Hundred Eight and Eighteen Paise Only
	12.05	Qty Above 125%	Cum	108.13	Rupees One Hundred Eight and Thirteen Paise Only
24	14.00	Providing and placing on terrace, polyethylene water storage tanks with manhole lid and suitable locking arrangements, making holes of suitable diameter for inlet, outlet and over flow pipes, including cost of all materials, labour, transport charges, HOM of equipments and testing complete as per specifications.(For 1000 litre capacity) complete as per specifications and directions of the Engineer in charge	Nos.	7742.95	Rupees Seven Thousand Seven Hundred Forty Two and Ninety Five Paise Only
25	420.00	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement & the cost of cutting chases & making good the same including testing of joints complete. (Concealed work including cutting chases and good the walls etc.)25MM DIAcomplete as per specifications and directions of the Engineer in charge	M	332.26	Rupees Three Hundred Thirty Two and Twenty Six Paise Only
26	28.00	Providing and fixing in position brass gate valve with C.I wheel of approved quality (screwed end) 25mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. Specification No.KBS 13.2.6 / 13.3 complete as per specifications and directions of the Engineer in charge	each	509.17	Rupees Five Hundred Nine and Seventeen Paise Only
27	7.00	SKID SS 202, PUMP CRI1HP, VESSEL-1354 PENTAIR, PRESSURE GAZE 10KGS NORMAL, MPV-1"NB FRONT FACE FILTER, HOUSING 20"JUMBO-1", SPUN 20 JUMBO, PUMP CRI 2 -180-3, PT-8040 FRP PANTHER, MEMBRANE DOW 8040, CONTROLL PANNEL 1X3 (SUPER), ROTAMETER 120-1680 ACRYLIC, ROTAMETER 400-2000 ACRYLIC, PRESSURE GAZE GLYSERINE - 21KG PANTHER, BRINE CON VALVE 3/4, ACRYLIC SHEET, LPS DENFOS, HPS DENFOS, DOSINGPUMP DOSE, SAND, CHEEPS, ACTIVATED CARBON INDUSTRIAL, ANTI DOSING CHEMICAL, HANDLE VALVE, ASSEMBLING AND COMMISSIONING, TANK SS304 1000LTR INCLUSIVE OF AUTOMATED COIN MACHINE complete as per specifications and directions of the Engineer in charge	nos	630000.00	Rupees Six lakh Thirty Thousand Only

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SNo	Quantity	Item Name	Unit	Approved Rates of Sri. K R Santhosh Kumar	
				In figures	In words
28	350.00	Open conduit System: Supplying heavy gauge PVC conduit pipe .....dia confirming to IS 2509 with suitable size bends, plugs in case of RCC ceiling and RCC wall stone structure or rawl plugs in case of brick walls and cement plastering damaged portion using heavy gauge saddles at an interval of 700mm using WF screws.a) 19/20mm dia 2mm thick chaper -1complete as per specifications and directions of the Engineer in charge	mtr	52.50	Rupees Fifty Two and Fifty Paise Only
29	28.00	Supplying and flush mounting teak wooden box without front plank, made of not less than 15mm thick wood, after due groove cutting, necessary masonry patch work complete. d)8''x6''x3''(203x152x76mm) complete as per specifications and directions of the Engineer in charge	each	56.70	Rupees Fifty Six and Seventy Paise Only
30	7.00	Point wiring using copper wire with switch Supplying and wiring adopting loop system in existing PVC Conduit/casing caping using Copper PVC insulated multi strand 2x1.5Sqmm copper wire with a 6Amps flush type SP control switch shall be fixied on the exisiting plastic sheet /gang box, the pther end of the wires shall be terminated with sufficient loose length in a wood/PVC round block.complete for each outlet. I. Point wiring using class A materials a) Short point upto 3Mtr from tapping point to out let via switch chaper-1 complete as per specifications and directions of the Engineer in charge	each	210.00	Rupees Two Hundred Ten Only
31	7.00	Point wiring using copper wire with switch Supplying and wiring adopting loop system in existing PVC Conduit/casing caping using Copper PVC insulated multi strand 2x1.5Sqmm copper wire with a 6Amps flush type SP control switch shall be fixied on the exisiting plastic sheet /gang box, the pther end of the wires shall be terminated with sufficient loose length in a wood/PVC round block.complete for each outlet. I. Point wiring using class A materials a) Short point upto 3Mtr from tapping point to out let via switch chaper-1 Medium point above 3Mtr upto 6Mtr from tapping pointr to out let viaswitch complete as per specifications and directions of the Engineer in charge	each	288.75	Rupees Two Hundred Eighty Eight and Seventy Five Paise Only
32	28.00	Point wiring using copper wire with switch Supplying and wiring adopting loop system in existing PVC Conduit/casing caping using Copper PVC insulated multi strand 2x1.5Sqmm copper wire with a 6Amps flush type SP control switch shall be fixied on the exisiting plastic sheet /gang box, the pther end of the wires shall be terminated with sufficient loose length in a wood/PVC round block.complete for each outlet. I. Point wiring using class A materials Long point above 6Mtr upto 10Mtr from tapping point to out let via switch 3complete as per specifications and directions of the Engineer in chargec	each	420.00	Rupees Four Hundred Twenty Only

Contractor

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SNo	Quantity	Item Name	Unit	Approved Rates of Sri. K R Santhosh Kumar	
				In figures	In words
33	7.00	Supplying 6A flush/projected type socket and a 6 amps flush/ projected type SP switch either surface/flush mounting in a exisiting gang box or in a 4mm thick plastic sheet and fixing over a flush mounted wooden box and wiring using necessary capacity wires as required. b) 6Amps 3/5 way chapter-1 p.no.15.i.no.3.1.1complete as per specifications and directions of the Engineer in charge	each	138.60	Rupees One Hundred Thirty Eight and Sixty Paise Only
34	560.00	Wiring for lighting/power circuit using one of FLRS PVC insulated 1100v grade, multis and CopperWITH LOW conductor single core cable in open or consealed system of wiring.I Group A Materials.a) 1.5 sqmm chapter no 1complete as per specifications and directions of the Engineer in charge	m	21.53	Rupees Twenty One and Fifty Three Paise Only
35	210.00	Wiring for lighting/power circuit using one of FLRS PVC insulated 1100v grade, multis and CopperWITH LOW conductor single core cable in open or consealed system of wiring.I Group A Materials.2.5Sqmm p.no.6.i.no.2.5.21complete as per specifications and directions of the Engineer in charge	m	33.60	Rupees Thirty Three and Sixty Paise Only
36	1120.00	Wiring for lighting/power circuit using one of FLRS PVC insulated 1100v grade, multis and CopperWITH LOW conductor single core cable in open or consealed system of wiring.I Group A Materials.c4 sqmm p.no.6.i.no.2.5.3 complete as per specifications and directions of the Engineer in charge	m	47.25	Rupees Forty Seven and Twenty Five Paise Only
37	10500.00	Supplying 4mm thick plastic sheet with necessary niches for fixing switches, regulators etc., and fixing on exisiting wood or metal box using N.F.screws complete as per specifications and directions of the Engineer in charge	sq cm	0.28	Twenty Eight Paise Only
38	28.00	Supplying and fixing pbbc bakelight stright or slant batton holderand wiring within 60v/230volts lamp group A chapter -2 complete as per specifications and directions of the Engineer in charge	each	92.40	Rupees Ninety Two and Forty Paise Only
39	14.00	Supplying and fixing retrofit type -PL-LED lamp...W LED linear Source with CCT 6500 degree K, CRI>70%efficacy>80 lumen per watt,life>25000 burning hours and compliance to IS 10322/IEC 60598,LM 79 and LM80.The LED are driven by HF electronicdriver integrated in the system, with PF>0.95, power loss Should <5% of lam Wattage.,short Circuit and open circuit Protection to be integrated Circuit, THD less than 20%,life as per LM79.the operating input voltage should be between130 t 275 volts.Tested by NABL/CPRI accredited laboratory with 2 years Warranty agnist any manufacturing defect working under standard electrical condition.18-20Watts complete as per specifications and directions of the Engineer in charge	each	446.25	Rupees Four Hundred Forty Six and Twenty Five Paise Only
40	7.00	Supply wall mountaing fan suitable to operate of single phase -230v A.C supply 400mm sweep a.group A chapter 3.complete as per specifications and directions of the Engineer in charge	each	2940.00	Rupees Two Thousand Nine Hundred Forty Only

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				In figures	In words
41	7.00	Supply of LED Streetlight luminaire with pressure die cast aluminium housing body for optimal thermal dissipation. Lamp compartment comprising of anti glare clear diffuser with Injection moulded polycarbonate material, delivering superior light output. Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70%, maximum light intensity should be between 60 degrees to 70 degrees. CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminaire > IK08. Power Factor >0.9 with mains, Surge Protection- Min 5KV along with Over voltage/ Overload, short circuit/ miss-wiring protection. Compatible for pole mouting with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture with .....W System Power consumption. LED Efficiency>130lm/w, nominal CRI >75. Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008 . Housing with supplier word mark /name shall be Engraved / Embossing on the die cast housing/ Body part. Warranty of 2 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED manufacturer & Cree/Nichia/ Lumileds/Osram make LED Source.complete as per specifications and directions of the Engineer in charge	each	3528.00	Rupees Three Thousand Five Hundred Twenty Eight Only
42	14.00	Supplying and fixing of T5 Fluorescent Tube with 14W power consumption with low 3mg Mercury content & below 40% glass content than T8 lamp & 20% less phosphor coating than T8 with initial lumen on 1350 (for 3000-6500 deg Kelvin), rated Avg life (12 Hr. Cycle) of greater than 35000 burring hours. Operating voltage range from 180V to 265V, 50Hz AC power Supplycomplete as per specifications and directions of the Engineer in charge	each	127.05	Rupees One Hundred Twenty Seven and Five Paise Only
43	14.00	Supply and fixing polished wood board made of not less than 15mm thick plank on both sides with plank made out of not more than 2 pices and fixing the same to the wall using tapered inverted woode plug screws etc., a) 20"x20"2.5" chapter complete as per specifications and directions of the Engineer in charge	each	306.60	Rupees Three Hundred Six and Sixty Paise Only
44	42.00	Supplying and fixing of Procelain fuse channel with cut out on exisiting wooden/panel using necessary nuts, bolts and washers etc., complete.a) 32Amps champter 5 complete as per specifications and directions of the Engineer in charge	each	182.70	Rupees One Hundred Eighty Two and Seventy Paise Only
45	7.00	Supply of an load charge over switches 4poles 415v 50Hz A.C supply with AC23A duty a) up to 63amps Groups A chapter 5.complete as per specifications and directions of the Engineer in charge	each	4515.00	Rupees Four Thousand Five Hundred Fifteen Only
46	7.00	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and C type curve indicator ON/OFF Energy cross 3 with short circuit breaking capacity of 10K and complete wiring as required. e)6-32amps TPN . Group A chapter 5complete as per specifications and directions of the Engineer in charge	each	2516.85	Rupees Two Thousand Five Hundred Sixteen and Eighty Five Paise Only

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SNo	Quantity	Item Name	Unit	Approved Rates of Sri. K R Santhosh Kumar	
				In figures	In words
47	21.00	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and C type curve indicator ON/OFF Energy cross 3 with short circuit breaking capacity of 10K and complete wiring as required. e)6-32amps TPN . Group A chapter 5 6-32amps TPN complete as per specifications and directions of the Engineer in charge	each	1800.75	Rupees One Thousand Eight Hundred and Seventy Five Paise Only
48	7.00	Supplying fixing and wiring Electronic10 to 40 amps Three phase 4wire class -1 Accuracy energy meter Group A chapter 5 complete as per specifications and directions of the Engineer in charge	each	5145.00	Rupees Five Thousand One Hundred Forty Five Only
49	14.00	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C. cutouts and other equipments on the meter board using 40mm dia 2.90 thick GI pipe 2.5 mtr long buried in a pit ... The pit should be filled with equal proprotion of salt and charcoal 150mm alround the pipe to complete depth. the connection form the pipe to the conduit etc, is to be established through GI wire of size as oer ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers and checknuts etc, the pipe shall have 16 through holes of 12mm dia.chapter 9. complete as per specifications and directions of the Engineer in charge	NO	3149.69	Rupees Three Thousand One Hundred Forty Nine and Sixty Nine Paise Only
50	140.00	Supplying and running of GI/Copper strips for grounding connections using necessary fixing material as required GI strip 25x3mm complete as per specifications and directions of the Engineer in charge	mtrs	78.75	Rupees Seventy Eight and Seventy Five Paise Only
51	315.00	Supplying of LT UG cable having aluminium conductor PVC insulated, sheathed, galvanished, steel wire/steel tap armoured cable with PVC outer sheating 1.1 KV class.I. Class 'A' PVC Cable.d) 4 core 16 sqmm chapter 9. complete as per specifications and directions of the Engineer in charge	mtrs	157.50	Rupees One Hundred Fifty Seven and Fifty Paise Only
52	280.00	Labour charges for lying of 1.1 KV class UG cable when supplied agency in existing trench GI pipe / stoneware pipe / on wall /on pole as required. I. In existing trench/duct.a) 6 sqmm to 16 sqmm complete as per specifications and directions of the Engineer in charge	mtrs	12.47	Rupees Twelve and Forty Seven Paise Only
53	210.00	Digging of trench of 0.6 m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc.,complete. .a) In soil (ordinary) complete as per specifications and directions of the Engineer in charge	mtrs	79.80	Rupees Seventy Nine and Eighty Paise Only
54	14.00	Supplying and fixing of class A (medium duty) GI pipe of wall thick ness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV class. a) 40mm complete as per specifications and directions of the Engineer in charge	mtrs	351.75	Rupees Three Hundred Fifty One and Seventy Five Paise Only
55	7.00	Supplying &fixing L.T.cast iron pot heads suitable for 1.1 KV class UG cable filled with necessary bitumen/insulating compound complete with terminals, clamps, bolts, nuts and washers ect.b) complete as per specifications and directions of the Engineer in charge	each	283.50	Rupees Two Hundred Eighty Three and Fifty Paise Only

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SNo	Quantity	Item Name	Unit	Approved Rates of Sri. K R Santhosh Kumar	
				In figures	In words
56	10.00	Geophysical investigation of site for sinking Borewell for supplying drinking water to the habitation either through the Hand pump, MWS of P.W.S.S by vertical electrical sounding by adopting Venner or Schlumberger's method, including reconnaissance survey of geological formation, Gerophysical investigation of existing Ground Wate in the vicinity, its quality & acceptability of the users indicating the location of site, recommended depth of casing pipe required to seal the top unconsolidated formation including an extra depth of 1.0 meter in consolidated formation for proper seating of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of instrument and accessories to work site., engaging techinical personal and labour required etc complete as per specifications and directions of the Engineer in charge Qty Upto 125%	Each BW	3956.40	Rupees Three Thousand Nine Hundred Fifty Six and Forty Paise Only
57	500.00	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporing vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars and cap etc.,) ,with all lead and lift, loading, unloading and labour charges etc., complete as per specifications and directions of the Engineer in charge	Rmtr	364.35	Rupees Three Hundred Sixty Four and Thirty Five Paise Only
58	500.00	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporing vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars and cap etc.,) ,with all lead and lift, loading, unloading and labour charges etc.,50-100mtrs complete as per specifications and directions of the Engineer in charge	Rmtr	464.10	Rupees Four Hundred Sixty Four and Ten Paise Only
59	500.00	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporing vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars and cap etc.,) ,with all lead and lift, loading, unloading and labour charges etc.,100-150mtrs complete as per specifications and directions of the Engineer in charge	Rmtr	478.80	Rupees Four Hundred Seventy Eight and Eighty Paise Only
60	500.00	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporing vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars and cap etc.,) ,with all lead and lift, loading, unloading and labour charges etc.,150-200mtrs complete as per specifications and directions of the Engineer in charge	Rmtr	562.80	Rupees Five Hundred Sixty Two and Eighty Paise Only

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SNo	Quantity	Item Name	Unit	Approved Rates of Sri. K R Santhosh Kumar	
				In figures	In words
61	500.00	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporing vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars and cap etc.,) ,with all lead and lift, loading, unloading and labour charges etc., 200-250mtrs complete as per specifications and directions of the Engineer in charge	Rmtr	665.70	Rupees Six Hundred Sixty Five and Seventy Paise Only
62	500.00	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporing vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars and cap etc.,) ,with all lead and lift, loading, unloading and labour charges etc., 250-300mtrs complete as per specifications and directions of the Engineer in charge	Rmtr	735.00	Rupees Seven Hundred Thirty Five Only
63	500.00	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporing vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars and cap etc.,) ,with all lead and lift, loading, unloading and labour charges etc., 300-350mtrs complete as per specifications and directions of the Engineer in charge	Rmtr	866.25	Rupees Eight Hundred Sixty Six and Twenty Five Paise Only
64	493.00	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporing vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars and cap etc.,) ,with all lead and lift, loading, unloading and labour charges etc., 350-400mtrs complete as per specifications and directions of the Engineer in charge	Rmtr	945.00	Rupees Nine Hundred Forty Five Only
65	600.00	Supply of ISI mark 175 mm nominal bore medium black ERW casing pipe of 5 mm thick black electric resistance continuous welded mild steel tube material confirming to IS 1387 / 1993 & manufactured from hot rolled steel skelp / stripes in random length of 4 to 7 mts both ends threaded confirming to IS 554 / 1985, one end fixed with a socket and the other and with a plastic protection end (including of all taxes) ,with all lead and lift, loading, unloading and labour charges etc., complete as per specifications and directions of the Engineer in charge	Rmtr	1432.99	Rupees One Thousand Four Hundred Thirty Two and Ninety Nine Paise Only
66	100.00	Providing and fixing 250mm dia PVC Pipe and as per specification and directions.(BWSSB SR 13-14complete as per specifications and directions of the Engineer in charge	Rmtr	1189.65	Rupees One Thousand One Hundred Eighty Nine and Sixty Five Paise Only
67	10.00	175mm dia M.S. Casing cap(P.No-111,I.No-85,PRED 12-13 SR)complete as per specifications and directions of the Engineer in charge	Each	108.15	Rupees One Hundred Eight and Fifteen Paise Only

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SNo	Quantity	Item Name	Unit	Approved Rates of Sri. K R Santhosh Kumar	
				In figures	In words
68	100.00	M.S. Casing pipe collars 'C' Class (P.No-111,I.No-86,PRED 12-13 SR)complete as per specifications and directions of the Engineer in charge	Each	162.23	Rupees One Hundred Sixty Two and Twenty Three Paise Only
69	198000.00	Fabrication supplying and mounting MS box of 16 SWG suitable for floor /wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished 2 coats of red oxide primer paint and finally finished with approved colour enamelled metal paint etc., complete box of 21600 sqcm with all lead and lift, loading, unloading and labour charges etc., complete and as per the directions of the Engineer-in-charge of the work.)complete as per specifications and directions of the Engineer in charge	Sq.cm	0.36	Thirty Six Paise Only
70	550.00	Labour charges for erection as new /repaired submercible pumpset allong with GI pipe (32/50mm) cable (new submercible pumpset if required will be supplied by the department free of cost and released pumpset shoud be handed over to department including transportation (Each lenth =6.00))complete as per specifications and directions of the Engineer in charge	Each	95.17	Rupees Ninety Five and Seventeen Paise Only
71	9.00	Erection of combined panel board meter board with all necessary materials and labour including providing CC 1:3:6 foundation bed etc,. Complete for basement out door type.(MR)complete as per specifications and directions of the Engineer in charge	Nos	198.75	Rupees One Hundred Ninety Eight and Seventy Five Paise Only
72	27.00	Supplying and fixing of Porcelain fuse channel with cut out on existing wooden / panel using necessary nuts, bolts and washer etc.,with all lead and lift, loading, unloading and labour charges etc., complete and as per the directions of the Engineer-in-charge of the work complete as per specifications and directions of the Engineer in charge	Nos	157.50	Rupees One Hundred Fifty Seven and Fifty Paise Only
73	342.00	Supplying and fixing of Porcelain fuse channel with cut out on existing wooden / panel using necessary nuts, bolts and washer etc.,with all lead and lift, loading, unloading and labour charges etc., complete and as per the directions of the Engineer-in-charge of the work complete as per specifications and directions of the Engineer in charge	Mtr	178.45	Rupees One Hundred Seventy Eight and Forty Five Paise Only
74	342.00	Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc., complete sutting road surfacescomplete as per specifications and directions of the Engineer in charge	Mtr	89.25	Rupees Eighty Nine and Twenty Five Paise Only
75	27.00	Supplying and fixing of class A GI pipe on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV class 40mm complete as per specifications and directions of the Engineer in charge	Mtr	309.31	Rupees Three Hundred Nine and Thirty One Paise Only
76	9.00	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C. cutouts and other equipment's on the meter board using 40mm dia 2.90mm thick GI pipe 2.5 mtr long buried in a pit ... The pit should be filled with equal proportion of salt and charcoal 150mm all-round the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers and check nuts etc., the pipe shall have 16 through holes of 122 mm dia, complete as per specifications and directions of the Engineer in charge	Nos	2863.35	Rupees Two Thousand Eight Hundred Sixty Three and Thirty Five Paise Only

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SNo	Quantity	Item Name	Unit	Approved Rates of Sri. K R Santhosh Kumar	
				In figures	In words
77	9.00	Supplying and fixing L.T. cast Iron pot heads suitable for 1.1 KV class 16sqmmUG cable filled with necessary bitumen/insulating compound complete with terminals, clamps, bolts, nuts and washers etc.(P. No. 555 / I.No. 16(b),BWSSB SR 13-14)	Nos	294.00	Rupees Two Hundred Ninety Four Only
78	9.00	Supplying and fixing of polished wood board made of not less than 15mm thick plank on both sides with planks made out of not more than 2 pieces and fixing the same to the wall using tapered inverted wooden plugs screws etc.,Size 20 x 20 x 2.5 inches with all lead and lift, loading, unloading and labour charges etc., complete and as per the directions of the Engineer-in-charge of the workcomplete as per specifications and directions of the Engineer in charge	Nos	327.15	Rupees Three Hundred Twenty Seven and Fifteen Paise Only
79	9.00	Borewell Cap and Clamp Set (PWD SR 2018-19, Page No. XLVII, Sl no. 17)complete as per specifications and directions of the Engineer in charge	Set	1890.00	Rupees One Thousand Eight Hundred Ninety Only
80	9.00	Supply and delivery at site brand New texmo/ innoval/ Lubi/ Sabar / Atalanta/ Calamal/ make suitable for vertical installation in 150mm dia bore well comprising of single stage or multistage CF pump close coupled by measns of stainless steel coupling to suitable HP suitable speed totally enclosed and filled with pure drinking water (Wet type) squirrel cage submersible induction motor suitable for opertation of 3PH., 50 Hz, 380/440 volts AC supply fitted with required aqccessories such as suction, casing suction strainers sand guard Non return value etc. complete . The pump and motor shall form an integral unit with all the required fittings 17.50 HP 30 stage.complete as per specifications and directions of the Engineer in charge	Nos	75732.30	Rupees Seventy Five Thousand Seven Hundred Thirty Two and Thirty Paise Only
81	3300.00	Providing, laying & joining GI pipes confirming to IS specification of approved make with fittings such as collars bends elbows tees nipples plugs with cuts threads using white lead & threads for joints wherever necessary as per direction including all lead & lift etc,. complete 'A' grade(excluding cost of fittings) 50mm dia GI pipe B Class (SR 18-19 PWDcomplete as per specifications and directions of the Engineer in charge	Rmtr	435.75	Rupees Four Hundred Thirty Five and Seventy Five Paise Only
82	550.00	Supply and fixing Collar for GI Pipes 50MM (page No.XLVII, Sl No.2,PWD SR 2018-19 complete as per specifications and directions of the Engineer in charge	Nos	189.00	Rupees One Hundred Eighty Nine Only
83	7140.00	Supplying of submersible pump cable 1X3X6 Sqmm complete as per specifications and directions of the Engineer in charge	Mtr	151.20	Rupees One Hundred Fifty One and Twenty Paise Only
84	9.00	Supplying & delivery at site brand new / Essen / lotus sunsines/Adarsh/Gk controls best indigenous make combine energy meter-cum-control panel board unit of size 1200 x 600 x 300 mm minimum mechanically strong and vermin and water proof the unit shall have two detachable doors suitable for operation on 3ph,50Hz, 380/440 volts, AC supply with spring loaded latch locking with a key ribs should be provided inside the door canopy apron and louvers ventilators shall be provided the combine energy mtr cum control panel board unit suitable for operation on 3ph, 50Hz,380/440 AC supply shall be consisted etc., completed T panel board shall be fabricated on single unit in the above components panel board for suitable pumpset above components panel board for suitable pumpset above Up to 20HP with star delta starter (MR) complete as per specifications and directions of the Engineer in charge	Nos	22050.00	Rupees Twenty Two Thousand Fifty Only
85	9.00	Supplying & delivery of brand 50mm Gate Valve. (PWD SR 18-19, complete as per specifications and directions of the Engineer in charge	Nos	1890.00	Rupees One Thousand Eight Hundred Ninety Only

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SNo	Quantity	Item Name	Unit	Approved Rates of Sri. K R Santhosh Kumar	
				In figures	In words
86	9.00	Supplying & delivery of brand 50mm Non Return Valve. complete as per specifications and directions of the Engineer in charge	Nos	1890.00	Rupees One Thousand Eight Hundred Ninety Only
87	9.00	Supplying and fixing MCB complete as per specifications and directions of the Engineer in charge	Nos	945.00	Rupees Nine Hundred Forty Five Only
88	1640.25	Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in Ordinary soil not exceeding 1.5m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m after breaking of clods complete as per specificationscomplete as per specifications and directions of the Engineer in charge	Cum	332.79	Rupees Three Hundred Thirty Two and Seventy Nine Paise Only
	157.95	Qty Above 125%	Cum	332.63	Rupees Three Hundred Thirty Two and Sixty Two Paise Only
89	3645.00	Providing and installing at site of work 63mm (0.662) PVC Pipes of 6kg / cm2 including cost of pipes and specials and labour, including lowering into trenches, laying true to line, level and perfect linking at joints leak proof including joining of approved type with all labour and lift charges, handling charges including encasing the pipe alround to a depth not less than 15cms with gravel or selected earth available from the excavation etc., complete as per specifications and directions of the Engineer in charge	Mtr	414.04	Rupees Four Hundred Fourteen and Four Paise Only
	351.00	Qty Above 125%	Mtr	413.84	Rupees Four Hundred Thirteen and Eighty Three Paise Only
90	1640.25	Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m and lift upto 1.5m including cost of all labour complete as per specifications complete as per specifications and directions of the Engineer in charge	Cum	134.67	Rupees One Hundred Thirty Four and Sixty Seven Paise Only
	157.95	Qty Above 125%	Cum	134.61	Rupees One Hundred Thirty Four and Sixty One Paise Only
		Bescom Charges			
	7.00	**Ro Plant**	Nos	11968.67	Rupees Eleven Thousand Nine Hundred Sixty Eight and Sixty Seven Paise Only
	9.00	**Borewell**	Nos	19558.67	Rupees Nineteen Thousand Five Hundred Fifty Eight and Sixty Seven Paise Only

Contractor

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